



SANYO

270

**SANYO
STEREO TURNTABLE
TP 725^(MV)
^(SEV)
SERVICE MANUAL**



270

SPECIFICATION

MOTOR & TURNTABLE SECTION

Motor: 4-pole AC servo-motor
Drive System: Belt-driven
Speeds: 33-1/3 and 45 rpm.
Wow & Flutter: 0.08%
Signal to Noise Ratio @2f: 55dB
Turntable Platter: Diameter: 310mm
Weight: 0.9 Kg
Controllable Speed Range: ±3.0%

TONE ARM SECTION

Type: Static Balance Type (S-shape)
Effective Arm Length: 215mm
Tracking Force Range: 1.0 to 3.5

CARTRIDGE SECTION

Type: Induced Magnetic (MG-28)
Frequency Response: 10 ~ 27 KHz
Channel Separation @1,000 Hz: 15dB
Output Voltage @500mm/sec: 2.0 ~ 3.8mV
Load Impedance: 50K ohm
Stylus: 0.5 mill. Diamond (ST-28D)

MISCELLANEOUS

Power Requirement: MV (Switchable) 120/200/220/240V
50/60 Hz
SEV/FSZ 110/220V 50 Hz
10 watts
Power Consumption: Dimension:
Width: 452mm (approx.)
Depth: 368mm (approx.)
Height: 167mm (approx.)
Weight: 9.5 Kg (approx.)

PICK-UP ARM HEIGHT ADJUSTMENT

Loosen the pick-up arm height adjusting screw (75) and adjust the height by sliding the support arm (100) and secure the screw.

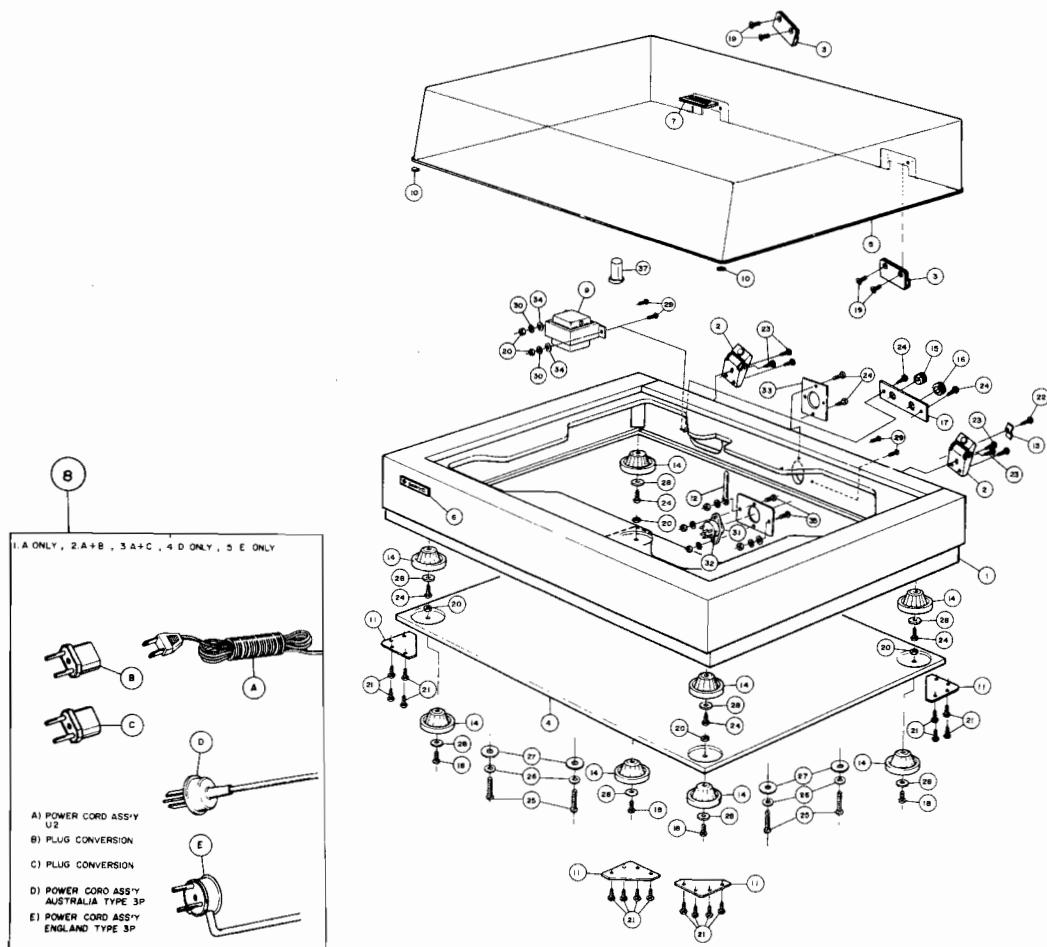
PICK-UP RAISING POSITION ADJUSTMENT (Return point)

Turn screw (96) clockwise to move outwards, and counterclockwise to move inwards.

PARTS LIST (MV)

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
PACKING							
	131 6 1139 51202	Box Corrugate EXP	1	15	131 2 6111 14200	Bushing	1
	131 6 2119 01330	Bag Polyethylene EXP	1	16	131 2 6111 14700	Bushing	1
	131 6 2119 01361	Bag Polyethylene EXP	1	17	131 2 3101 33400	Bushing	1
	131 6 3009 19520	Pad	1	18	101 3 1103 01001	Metal Mount	1
	131 6 3009 19521	Pad	1	19	101 3 1204 00803	Screw Pan Hd. 3 x 10	4
	131 6 2519 07400	Bag Polyethylene EXP	1	20	104 3 1 03 00002	Screw Flat Hd. 4 x 8	4
	131 6 2719 10600	Bag Fan	1	21	106 3 1102 71001	Nut 3	10
	131 6 4119 45404	Explanatory Booklet	1	22	106 3 1103 10801	Screw Round Hd. 2.7 x 10	16
CABINET							
1	131 2 1101 30301	Cabinet	1	23	106 3 1103 11302	Screw Round Hd. 3.1 x 8	6
2	131 0 2002 14201	Hinge Assy	2	24	106 3 1103 11301	Screw Round Hd. 3.1 x 13	9
3	131 2 2108 00900	Hinge	2	25	101 3 1104 02003	Screw Pan Hd. 4 x 20	4
4	131 2 1105 16001	Plate Bottom	1	26	105 3 1204 00001	Washer Spring 4	4
5	131 2 1107 18900	Lid	1	27	131 2 4203 84211	Washer 4.2 x 13 x 1.6	4
6	131 2 1301 14400	Sanyo Badge	1	28	131 2 4203 83202	Waseer 3.2 x 10 x 1	8
7	131 2 1310 22101	Name Plate	2	29	101 3 1103 01602	Screw Pan Hd. 3 x 16	2
8	131 0 4006 00300	Cord Assy	1	30	105 3 1203 00002	Washer 3mm	6
9	4 2519 21180	Power Trans	1	31	4 2369 20550	Power Select Plug	1
10	131 2 2904 11900	Pad Lid	2	32	4 2359 21220	Power Select Socket	1
11	131 2 3101 17701	Metal Mount	4	33	131 2 3101 23400	Metal Mount	1
12	131 2 3608 10200	Cramp Wire	1	34	131 2 4203 83200	Washer 3.2 x 8 x 0.5	6
13	131 2 3608 10300	Cramp Wire	1	35	101 3 1103 00802	Screw Pan Hd. 3 x 8	2
14	131 2 5205 14700	Cushion	8	36	105 3 1203 00002	Washer Spring 3.0	6
	131 2 5205 15000	Cushion	4	37	4 2379 20930	Terminal	1

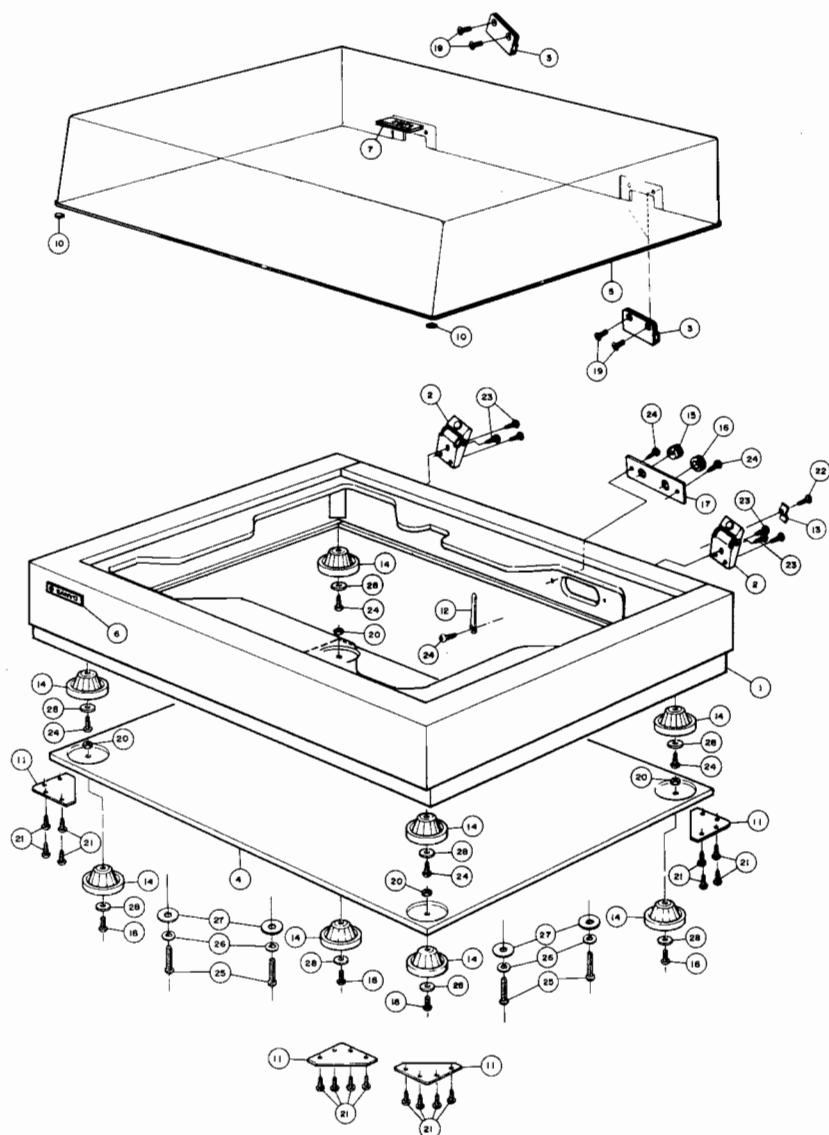
CABINET EXPLODED VIEW (TP 725 MV)



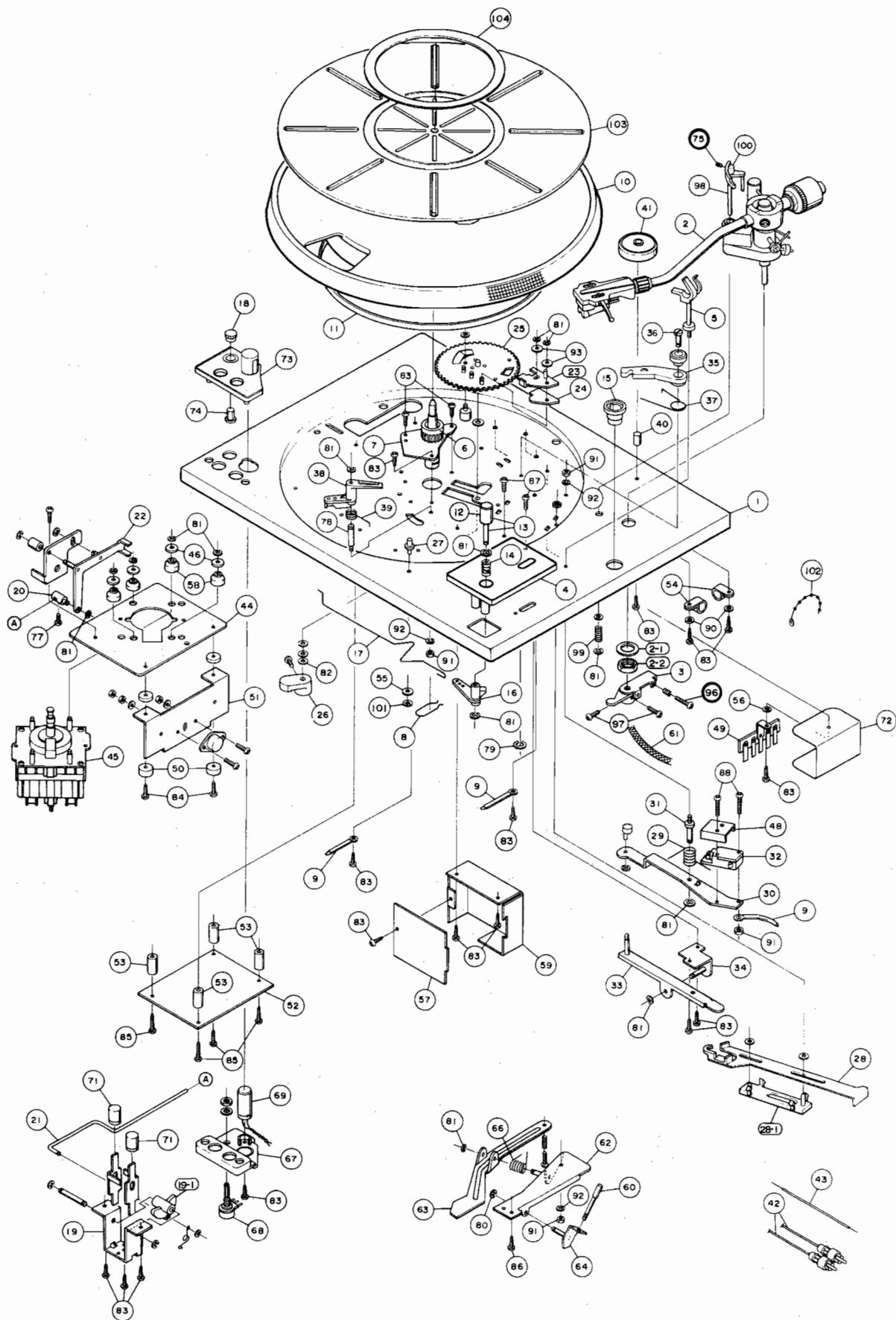
PARTS LIST (SEV)

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
PACKING							
	131 6 1139 51202	Box corrugate EXP	1	11	131 2 3101 17701	Metal Mount	4
	131 6 2119 01330	Bag Polyethylene EXP	1	12	131 2 3608 10200	Cramp Wire	1
	131 6 2119 01361	Bag Polyethylene EXP	1	13	131 2 3608 10300	Cramp Wire	1
	131 6 3009 19521	Pad	1	14	131 2 5205 14900	Cushion	8
	131 6 2519 07400	Bag Polyethylene EXP	1	15	131 2 5205 15000	Cushion	4
	131 6 2719 10600	Bag Fan	1	16	131 2 6111 14200	Bushing	1
	131 6 4119 45403	Explanatory Booklet	1	17	131 2 6111 10300	Bushing	1
CABINET							
1	131 2 1101 30300	Cabinet	1	18	101 3 1103 01001	Metal Mount	1
2	131 0 2002 14201	Hinge Assy	2	19	101 3 1204 00803	Screw Pan Hd. 3.0 x 10	4
3	131 2 2108 00900	Hinge	2	20	104 3 1103 00002	Screw Flat Hd. 4.0 x 8	4
4	131 2 1105 16000	Plate Bottom	1	21	106 3 1102 71001	Nut Hex Hd. 3.0mm	4
5	131 2 1107 18900	Lid	1	22	106 3 1103 10801	Screw Round Hd. 2.7 x 10	16
6	131 2 1301 14400	Badge Sanyo	1	23	106 3 1103 11302	Screw Round Hd. 3.1 x 8	1
7	131 2 1310 22101	Name Plate	2	24	106 3 1103 11301	Screw Round Hd. 3.1 x 13	6
10	131 2 2904 11900	Pan Lid	2	25	101 3 1104 02003	Screw Round Hd. 3.1 x 20	7
				26	105 3 1204 00001	Screw Pan Hd. 4.0 x 20	4
				27	131 2 4203 84211	Washer Spring	4
				28	131 2 4203 83202	Washer Plain 4.2 x 13 x 1.6	4
						Washer Plain 3.2 x 10 x 1.0	8

CABINET EXPLODED VIEW (TP 725 SEV)



EXPLODED VIEW (MV)

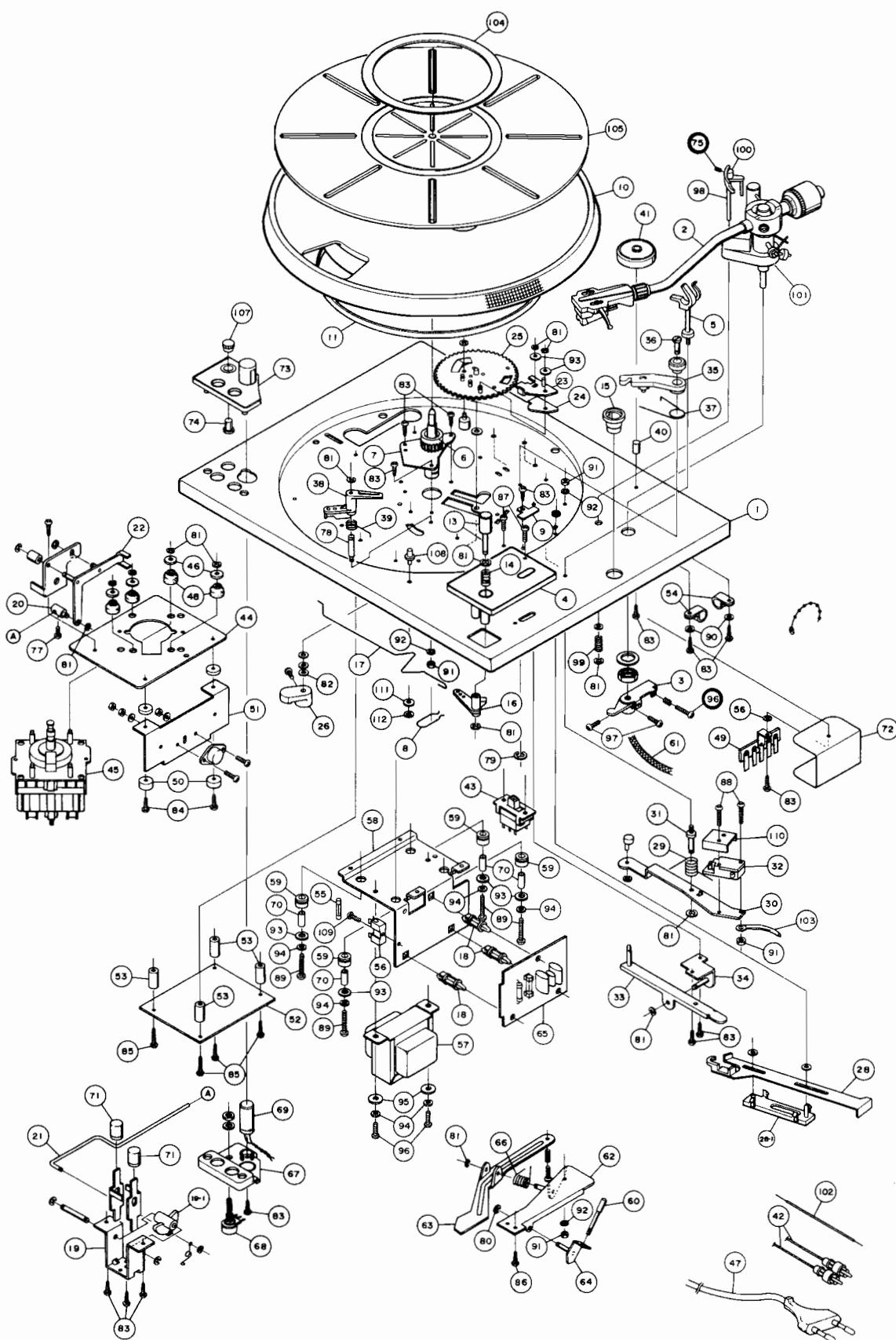


PARTS LIST (MV)

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
TURNTABLE UNIT							
1	134 0 6001 12501	Unite Plate Assy	1	68	4 2229 29005	Variable Resistor 500 ohm B	1
2	4 1579 20840	Pick UP	1	69	4 6129 29003	Neon Lamp	1
	134 0 4001 03702	-Tone Arm Assy	1	71	131 0 1001 95003	Knob Assy	2
	4 1579 26710	-Cartridge MG-28	1	72	131 2 6103 95002	Cover Shield	1
	4 1579 29230	-Pick UP Stylus ST-28	1	73	134 0 1002 10200	Panel Assy	1
	134 2 4201 11304	-Screw	2	74	131 2 1601 95007	Knob	1
	134 2 4202 11301	-Nut	2	75	134 2 4201 11600	Screw 2.6 x 4	1
	134 2 4203 01801	-Washer	2	76	134 2 4106 20900	Screw Pan Hd. Tapping 2.6 x 8	1
	134 2 1402 10800	-Retainer Needle	1	77	134 2 4106 20900	Screw Pan Hd. Tapping 3 x 6	1
2-1	134 2 4202 11501	-Nut	1	78	134 2 4106 20900	Shaft	1
2-2	134 2 4203 02301	-Washer	1	79		E Ring 4mm	1
	134 2 4119 10700	Sub Weight	1	80		E Ring 2mm	1
3	134 0 6012 10500	Arm Inter Lock Assy	1	81		E Ring 3.2mm	14
4	134 0 1005 10601	Cover Rejection Assy	1	82		E Ring 4mm	1
5	134 0 6031 11102	Armrest Assy	1	83		Screw Pan Hd. Tapping 3 x 8	15
6	134 0 5002 10600	Spindle TT Assy	1	84		Screw Pan Hd. Tapping 3 x 12	2
7	134 0 5010 10200	Bearing TT Assy	1	85		Screw Pan Hd. Tapping 3 x 20	4
8	134 2 5101 18500	Spring	1	86		Screw Pan Hd. Tapping 3 x 5	1
9	131 2 3608 10200	Cramp Wire	3	87		Screw Pan Hd. 3 x 6	2
10	134 2 6101 11300	Turntable	1	88		Screw Pan Hd. 3 x 16	2
11	134 2 6302 10200	Belt	1	89		Screw Pan Hd. 4 x 22	4
12	134 0 1001 12200	Knob Assy	1	90		Washer 3.2 x 8 x 0.5	2
13	134 0 1001 12300	Knob Assy	1	91		Nut 3mm	4
14	134 2 5101 25300	Spring	1	92		Spring Washer 3mm	3
15	134 2 4118 16100	Boss	1	93		Washer 4.2 x 12 x 0.8t	4
16	134 2 4120 16300	Lever	1	94		Spring Washer 4mm	6
17	134 2 5101 25400	Spring	1	95		Washer 4.7 x 12 x 1t	2
18	131 2 1601 95008	Decorate Knob	1	96		Screw Pan Hd. 4 x 9	2
19	134 0 5008 10500	Selector Speed Assy	1	97		Screw Pan Hd. 2.6 x 6	2
19-1	134 2 1405 11200	Cam	1	98	134 2 4116 12000	Spindle Lifting	1
20	134 2 4129 10200	Joint	1	99	134 2 5101 25800	Spring	1
21	134 2 4112 11000	Rod	1	100	134 2 3310 10900	Support Arm	1
22	134 0 5008 10600	Selector Speed Assy	1	101	131 2 3608 11300	CS Ring 3mm	1
23	134 0 6011 10800	Trip Assy	1	102	134 2 6102 13500	Cramp Wire	3
24	134 2 4122 11900	Trip	1	103	134 2 6103 11200	Mat Turntable	1
25	134 0 6030 11400	Gear Cycling Assy	1	104	134 2 6103 11200	Plate Decorate TT	1
26	134 0 6004 10700	Lever Shut Off Assy	1				
	134 2 4120 16400	Lever	1				
27	131 2 1503 11501	Decorate Sign	1				
28	134 0 6037 11200	Base Assy	1				
28-1	134 2 4121 11300	Guide	1				
29	134 2 5101 25500	Spring	1				
30	134 0 6012 10600	Arm Inter Lock Assy	1				
31	134 2 4106 10700	Shaft	1				
32	4 2319 21992	Switch Power	1				
33	134 0 6012 10700	Arm Inter Lock Assy	1				
34	134 0 6037 11300	Base Assy	1				
35	134 2 4123 15200	Arm	1				
36	134 2 4106 20800	Shaft	1				
37	134 2 5101 25600	Spring	1				
38	134 2 4120 13800	Lever	1				
39	134 2 5101 18400	Spring	1				
40	134 2 2902 00302	Pin Adaptor EP	1				
41	134 2 2901 10502	Adaptor EP	1				
42	131 0 4004 14100	Wire Shield Assy	1				
43	4 2319 21530	Earth Lead	1				
44	134 2 4108 17500	Plate	1				
45	4 1519 20542	Phono Motor	1				
46		Fiber Washer 4.7 x 13 x 1t	4				
48	131 2 1401 10300	Cover	1				
49	4 2379 20440	Lug 4P	1				
50	131 2 6111 95004	Bushing	4				
51	131 2 6201 22300	Plate Heat Sink	1				
52	131 0 4001 95017	Printed Circuit Assy	1				
53	134 2 4208 12300	Spacer	4				
54	131 2 3608 95001	Cramp Wire	2				
55	131 2 6111 95005	Bushing	1				
56		Washer 3mm	1				
57	131 0 4001 95015	Printed Circuit Assy	1				
58	134 2 5202 11600	Rubber Cushion	4				
59	131 2 3614 95001	Mount PCB	1				
60	134 0 1001 12400	Rod Assy	1				
61		Weaved Wire 5mm	1				
62	134 0 6029 10700	Angle Mount Assy	1				
63	134 0 6024 10200	Plate Connect Assy	1				
64	134 0 6028 10800	Cam Drive Assy	1				
66	134 2 5101 25700	Spring	1				
67	134 0 6037 11400	Base Assy	1				

Note: Specifications are subject to change without notice for further improvement.

EXPLODED VIEW (SEV)



PARTS LIST (SEV)

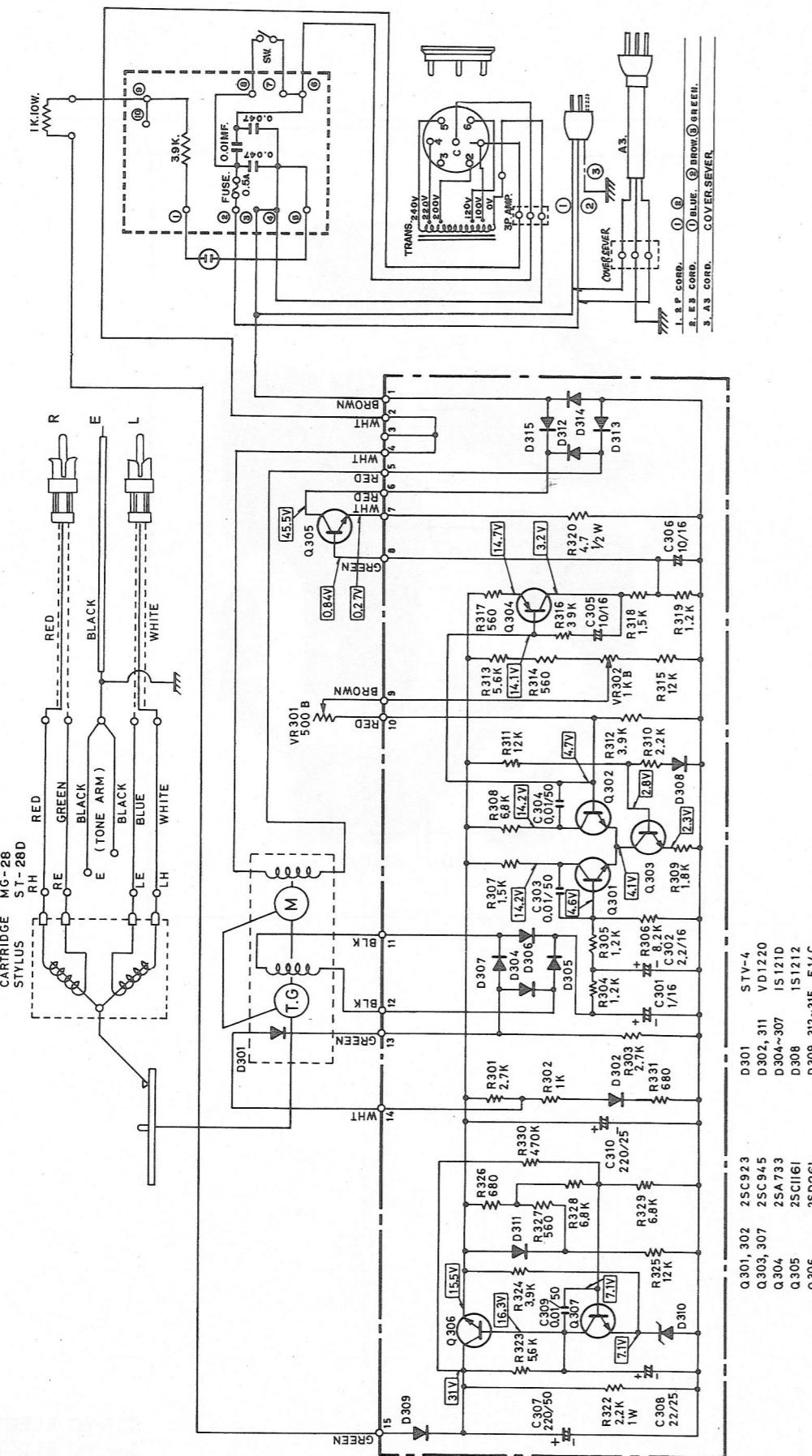
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
TURNTABLE UNIT							
1	134 0 6001 12500	Unit Plate Assy	1	67	134 0 6037 11400	Base Assy	1
2	4 1579 20840	Pick Up	1	68	4 2229 29005	Variable Resistor	1
	134 0 4001 03702	-Tone Arm Assy	1	69	4 6129 29003	Neon Lamp	1
	4 1579 26710	-Cartridge	1	70	134 2 4208 13400	Spacer	4
	4 1579 29230	-Pickup Stylus	1	71	131 0 1001 95003	Knob Assy	2
	134 2 4201 11304	-Screw	2	72	131 2 6103 95002	Cover Shied	1
	134 2 4202 11301	-Nut	2	73	134 0 1002 10200	Panel Assy	1
	134 2 4203 01801	-Washer	2	74	131 2 1601 95007	Knob	1
	134 2 1402 10800	-Retainer Needle	1	75		Screw 2.6 x 4	1
	134 2 4202 11501	-Nut	1	76		Screw Pan Head Tapping 2.6 x 8	1
	134 2 4203 02301	-Washer	1	77		Screw Pan Head 3 x 6	1
	134 2 4119 10700	Sub Weight	1	78	134 2 4106 20900	Shaft	1
3	134 0 6012 10500	Arm Interlock Assy	1	79		E Ring 4mm	1
4	134 0 1005 10600	Cover Rejector Assy	1	80		E Ring 2mm	1
5	134 0 6031 11102	Armrest Assy	1	81		E Ring 3.2mm	4
6	134 0 5002 10600	Spindle TT Assy	1	82		E Ring 4mm	1
7	134 0 5010 10200	Bearing TT Assy	1	83		Screw Pan Head Tapping 3 x 8	10
8	134 2 5101 18500	Spring	1	84		Screw Pan Head 3 x 12	2
9	134 2 1405 01800	Cover Select	1	85		Screw Pan Head 3 x 20	4
10	134 2 6101 11300	Turne Table	1	86		Screw Pan Head 3 x 5	1
11	134 2 6302 10200	Belt	1	87		Screw Pan Head 3 x 6	2
13	134 0 1001 12300	Knob Assy	1	88		Screw Pan Head 3 x 14	2
14	134 2 5101 25300	Spring	1	89		Screw Pan Head 4 x 22	4
15	134 2 4118 16100	Boss	1	90		Washer 3.2 x 8 x 0.5	2
16	134 2 4120 16300	Lever	1	91		Nut 3mm	3
17	134 2 5101 25400	Spring	1	92		Spring Washer 3φ	3
18	134 2 4208 13300	Spacer	3	93		Washer 4.2 x 12 x 0.8	4
19	134 0 5008 10500	Selector Speed Assy	1	94		Spring Washer 4φ	6
19-1	134 2 1405 11200	Cam	1	95		Waher 4.7 x 12 x 7	2
20	134 2 4129 10200	Joint	1	96		Screw Pan Head 4 x 6	2
21	134 2 4112 11000	Rod	1	97		Screw Pan Head 2.6 x 6	2
22	134 0 5008 10600	Selector Speed Assy	1	98	134 2 4116 12000	Spindle Lifting	1
23	134 0 6011 10800	Trip Assy	1	99	134 2 5101 25800	Spring	1
24	134 2 4122 11900	Trip	1	100	134 2 3310 10900	Support Arm	1
25	134 0 6030 11400	Gear Cycling Assy	1	101	134 2 1404 10600	Housing	1
26	134 0 6004 10700	Lever Shut Off Assy	1	102		Wire L-1500	1
27	134 2 6111 95002	Bushing	1	103	131 2 3608 10200	Cramp Wire	1
28	134 0 6037 11200	Base Assy	1	104		TT Ring	1
28-1	134 2 4121 11300	Guide	1	105		TT	1
29	134 2 5101 25500	Spring	1	106		Washer 3φ	1
30	134 0 6012 10600	Arm Interlock Assy	1	107	131 2 1601 95008	Decorate Knob	1
31	134 2 4106 20700	Shaft	1	108	131 2 1503 11501	Decorate Sign	1
32	4 2319 21992	Switch Power	1	109		Screw Pan Head 2.6 x 8	1
33	134 0 6012 10700	Arm Interlock Assy	1	110	131 2 1401 10300	Cover	1
34	134 0 6037 11300	Base Assy	1	111	131 2 6111 95001	Bushing	1
35	134 2 4123 15200	Arm	1	112		CS Ring 3mm	1
36	134 2 4106 20800	Shaft	1				
37	134 2 5101 25600	Spring	1				
38	134 2 4120 13800	Lever	1				
39	134 2 5101 18400	Spring	1				
40	134 2 2902 00302	Pin Adaptor EP	1				
41	134 2 2901 10500	Adaptor EP	1				
42	131 0 4004 14100	Wire Shield Assy	1				
43	4 2319 21530	Switch Slide 6P	1				
44	134 2 4108 17500	Plate	1				
45	4 1569 20541	Phono Motor	1				
46		Washer	4				
47	4 2439 20710 or 4 2439 20550	Power Cord	1				
48	134 2 5202 11600	Power Cord	1				
49	4 2379 20440	Cushion	4				
50	131 2 6111 95003	Lug 4P	1				
51	131 2 6201 22300	Bushing	4				
52	131 0 4001 95016	Plate Heat Sink	1				
53	134 2 4208 12300	Printed Circuit Assy	1				
54	131 2 3608 95001	Spacer	4				
55	4 2349 20410	Cramp Wire	2				
56	4 2359 21020	Fuse	3				
57	4 2519 23600	Fuse Holder	2				
58	134 2 2403 15300	Power Trans	1				
59	134 2 5202 11700	Angle Mount	1				
60	134 0 1001 12400	Cushion	4				
61		Rod	1				
62	134 0 6029 10700	Shield Wire					
63	134 0 6024 10200	Angle Mount Assy	1				
64	134 0 6028 10800	Plate Connect Assy	1				
65	131 0 4001 95013	Cam Drive Assy	1				
66	134 2 5101 25700	Printed Circuit Assy	1				
		Spring	1				

Note: Specifications are subject to change without notice for further improvement.

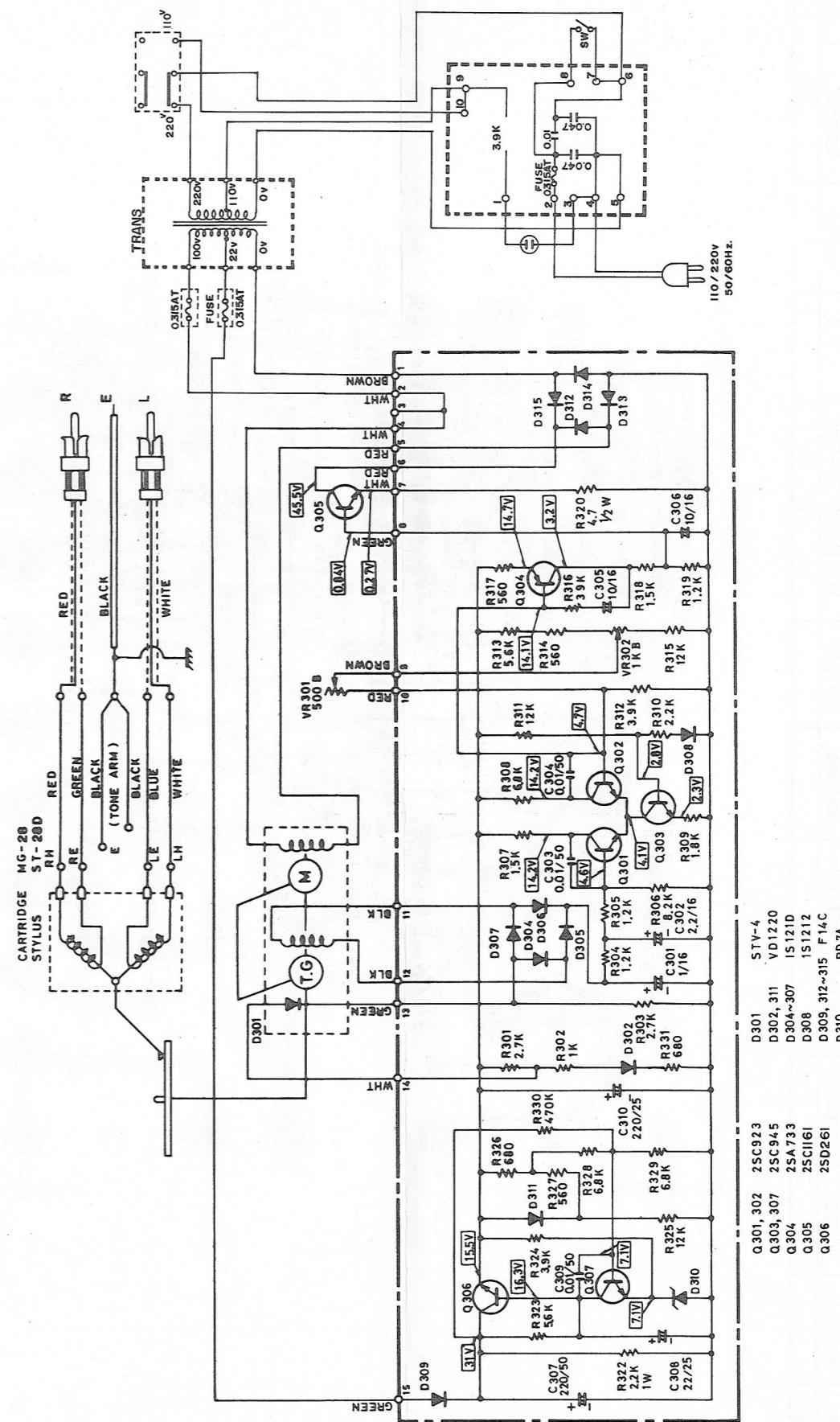
PARTS LIST

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
CONTROL PCB ASSY							
	131 0 4001 95016	Control PCB Assy	1		131 0 4001 95014 131 0 4001 95013 4 2349 20100 4 2349 20410	Power PCB Assy (MV) Power PCB Assy (SEV) 0.5A Fuse (MV) 0.315A (SEV)	1 1 1 1
TRANSISTOR							
Q301	2SC923		1				
Q302	2SC923		1				
Q303	2SC945		1				
Q304	2SA733		1				
Q305	2SC1161		1				
Q306	2SD261		1				
Q307	2SC945		1				
DIODE							
D302	VD 1220		1				
D304	VD 1120		1				
D305	VD 1120		1				
D306	VD 1120		1				
D307	VD 1120		1				
D308	VD 1120		1				
D309	F 14C		1				
D310	RD 7A		1				
D311	VD 1220		1				
D312	F 14C		1				
D313	F 14C		1				
D314	F 14C		1				
D315	F 14C		1				
RESISTORS							
R322	2.2K 1W ±5%		1				
R301	2.7K 1/4W ±5%		1				
R302	1K 1/4W ±5%		1				
R303	2.7K 1/4W ±5%		1				
R304	1.2K 1/4W ±5%		1				
R305	1.2K 1/4W ±5%		1				
R306	8.2K 1/4W ±5%		1				
R307	1.5K 1/4W ±5%		1				
R308	6.8K 1/4W ±5%		1				
R309	1.8K 1/4W ±5%		1				
R310	2.2K 1/4W ±5%		1				
R311	12K 1/4W ±5%		1				
R312	3.9K 1/4W ±5%		1				
R313	5.6K 1/4W ±5%		1				
R314	560 1/4W ±5%		1				
R315	12K 1/4W ±5%		1				
R316	3.9K 1/4W ±5%		1				
R317	560 1/4W ±5%		1				
R318	1.5K 1/4W ±5%		1				
R319	1.2K 1/4W ±5%		1				
R320	4.7K 1/2W ±5%		1				
R323	5.6K 1/4W ±5%		1				
R324	3.9K 1/4W ±5%		1				
R325	12K 1/4W ±5%		1				
R326	680 1/4W ±5%		1				
R327	560 1/4W ±5%		1				
R328	6.8K 1/4W ±5%		1				
R329	6.8K 1/4W ±5%		1				
R330	470K 1/4W ±5%		1				
R331	680 1/4W ±5%		1				
CAPACITOR							
C301	1MF/16V		1				
C302	2.2MF/16V		1				
C305	10MF/16V		1				
C306	10MF/16V		1				
C307	220MF/50V		1				
C308	22MF/25V		1				
C310	220MF/25V		1				
C303	0.01MF/50V ±10%		1				
C304	0.01MF/50V ±10%		1				
C309	0.01MF/50V ±10%		1				
BARIABLE RESISTORS							
VR301	500 B type Variable Resistor		1				
VR302	1K B type Semi Fixed		1				

SCHEMATIC DIAGRAM (MV)

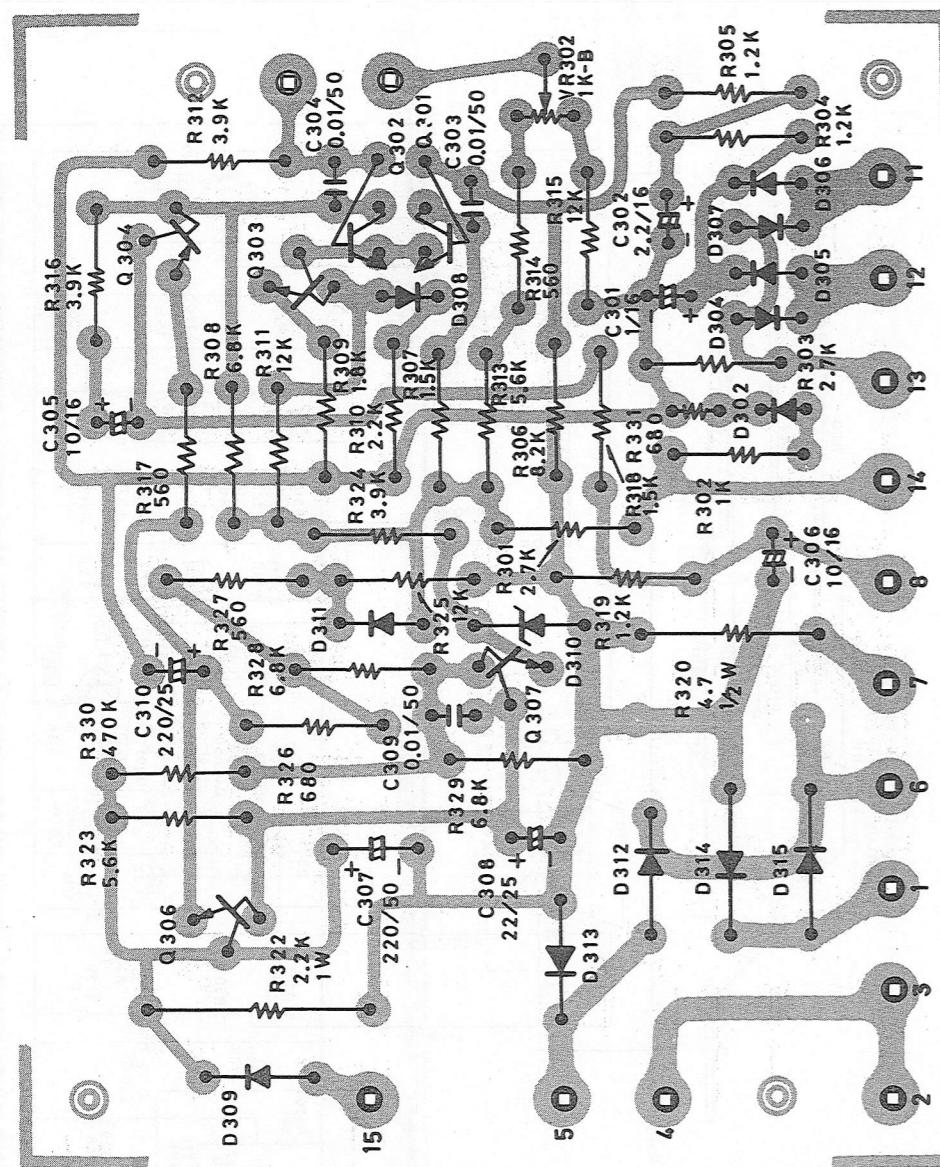


SCHEMATIC DIAGRAM (SEV)



SCHEMATIC DIAGRAM

	Q301	Q302	Q303	Q304	Q306	Q307	D302	D304 ~ D307	D308	D309	D310	D311	D312 ~ D315	
TR, D	2SC923	2SC923	2SC923	2SC923	2SD261	2SA733	2SD261	2SC945	VD-1120	VD-1122	F14C	RD7A	M	F14C
RANK														F14C



SCHEMATIC DIAGRAM

